CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.02/BRD/CSR-01/1036g/CEMENT/2015-16 Date: 05.01.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. B. R. Dhananjaya,** No.22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore.
*NAME OF THE WORK	:	Providing RCC covering to existing SWD at Kamakshamma Layout 1st main road near Chinnappa house in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
*REFERENCE	:	EE(YNK.D)E-PMT-8/W.O/ /2013-14 Dated: 17.01.2014
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.01.2016
PERIOD OF TESTING	:	02.01.2016 to 05.01.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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T-2377

Job No.: CTCE/BBMP/W.No.02/BRD/CSR-01/1036g/SAND-Gradation/2015-16 : 05.01.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B. R. Dhananjaya,** No.22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore.
* Name of Work	: Providing RCC covering to existing SWD at Kamakshamma Layout 1st main road near Chinnappa house in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: EE(YNK.D)E-PMT-8/W.O/ /2013-14 Dated: 17.01.2014
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 02.01.2016
Date of Testing	: 05.01.2016

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.00	90-100	90-100	90-100	95-100
2.36	73.80	60-95	75-100	85-100	95-100
1.18	52.30	30-70	55-90	75-100	90-100
600 Micron	29.30	15-34	35-59	60-79	80-100
300 Micron	14.80	5-20	8-30	12-40	15-50
150 Micron	4.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.02/BRD/CSR-01/1036g/AGG/GR/2015-16 : 05.01.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. B. R. Dhananjaya,** No.22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore.
* Name of Work	: Providing RCC covering to existing SWD at Kamakshamma Layout 1st main road near Chinnappa house in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: EE(YNK.D)E-PMT-8/W.O/ /2013-14 Dated: 17.01.2014
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 02.01.2016
Date of Testing	: 05.01.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.75	95-100	85-100
20	44.25	30-70	0-20
10	19.20	10-35	0-5
4.75	3.95	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.02/BRD/CSR-01/1036g/CUBE/2015-16 12.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

* Agency : **Mr. B. R. Dhananjaya,**
No.22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore.

* Name of the work : Providing RCC covering to existing SWD at Kamakshamma Layout 1st main road near Chinnappa house in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

* Reference : EE(YNK.D)E-PMT-8/W.O/ /2013-14 Dated: 17.01.2014

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 12.02.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.01.2016	12.02.2016	8.138	480.3	21.35
2	15.01.2016	12.02.2016	8.275	490.6	21.80
3	15.01.2016	12.02.2016	8.329	510.3	22.68

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.02/BRD/CSR-01/1036g/CUBE/2015-16 08.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

* Agency : **Mr. B. R. Dhananjaya,**
No.22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore.

* Name of the work : Providing RCC covering to existing SWD at Kamakshamma Layout 1st main road near Chinnappa house in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

* Reference : EE(YNK.D)E-PMT-8/W.O/ /2013-14 Dated: 17.01.2014

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 08.02.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2016	08.02.2016	8.190	355.6	15.80
2	11.01.2016	08.02.2016	8.250	364.3	16.19
3	11.01.2016	08.02.2016	8.342	372.3	16.55

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Job No.: CTCE/BBMP/W.No.02/BRD/CSR-01/1036g/CUBE/2015-16 08.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

* Agency : **Mr. B. R. Dhananjaya,**
No.22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore.

* Name of the work : Providing RCC covering to existing SWD at Kamakshamma Layout 1st main road near Chinnappa house in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.

* Reference : EE(YNK.D)E-PMT-8/W.O/ /2013-14 Dated: 17.01.2014

* Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 08.02.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2016	08.02.2016	8.115	360.3	16.01
2	11.01.2016	08.02.2016	8.290	379.6	16.87
3	11.01.2016	08.02.2016	8.387	395.6	17.58

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Job No.: CTCE/BBMP/W.No.02/BRD/STEEL/2015-16 05.01.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B. R. Dhananjaya,** No.22, Gundappa Road, 3rd Cross, Floor Mill Road, Nagashettyhalli, Bangalore.
Name of the work	:	Providing RCC covering to existing SWD at Kamakshamma Layout 1st main road near Chinnappa house in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	EE(YNK.D)E-PMT-8/W.O/ /2013-14 Dated: 17.01.2014
Date of Test	:	05.01.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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